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1 Relaxed space bounding for moving objects: a case for the buddy tree

Shuqiao Guo, Zhiyong Huang, H. V. Jagadish, Beng Chin Ooi, Zhenjie Zhang
December 2006 **ACM SIGMOD Record**, Volume 35 Issue 4

Publisher: ACM Press
Full text available: pdf(285.64 KB) Additional Information: full citation, abstract, references

Rapid advancements in positioning systems and wireless communications enable accurate tracking of continuously moving objects. This development poses new challenges to database technology since maintaining up-to-date information regarding the location of moving objects incurs an enormous amount of updates. There have been many efforts to address these challenges, most of which depend on the use of a minimum bounding rectangle (MBR) in a multi-dimensional index structure such as R-tree. The maint ...

2 Long papers: tools: Virtual object specification for usable virtual environments

Shamus P. Smith, James S. Willans
November 2006 **Proceedings of the 20th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: design: activities, artefacts and environments OZCHI '06**

Publisher: ACM Press
Full text available: pdf(375.26 KB) Additional Information: full citation, abstract, references, index terms

The specification of virtual world objects is an important part of virtual environment design. However, identifying the required level of behaviour and geometric decomposition for virtual objects in a particular application is difficult and error-prone. This has implications for usability as the behaviour of objects gives strong cues to potential interaction. A fundamental step in tackling usability problems is the specification of virtual world objects early in the design phase. This paper pres ...

Keywords: design, requirements, scenarios, specification, virtual environments, virtual world objects

3 Medial axis representations: Medial axis extraction and shape manipulation of solid objects using parabolic PDEs

Haixia Du, Hong Qin
June 2004 **Proceedings of the ninth ACM symposium on Solid modeling and**

applications SM '04
Publisher: Eurographics Association
Full text available: pdf(1.85 MB) Additional Information: full citation, abstract, references, index terms

Shape skeletonization (i.e., medial axis extraction) is powerful in many visual computing applications, such as pattern recognition, object segmentation, registration, and animation. This is because medial axis (or skeleton) provides more compact representations for solid models while preserving their topological properties and other features. Meanwhile, PDE techniques are widely utilized in computer graphics fields to model solid objects and natural phenomena, formulate physical laws to govern ...

4 Qualitative Physics for Movable Objects in MOUT
Suiping Zhou, Shang-Ping Ting
April 2006 **Proceedings of the 39th annual Symposium on Simulation - Volume 00 ANSS '06**
Publisher: IEEE Computer Society
Full text available: pdf(706.15 KB) Additional Information: full citation, abstract

We describe our work on qualitative physics for modelling movable objects in Twilight City, a virtual environment for Military Operations on Urbanized Terrain (MOUT). Movable objects such as chairs, boxes, bottles, etc. are quite common in real life. However, the computational cost will be high if the exact physics laws are used to model the behaviour of these objects. To reduce the computational cost of simulating moveable objects in Twilight City, a framework for qualitative behaviour simulati ...

Keywords: qualitative physics, virtual environments, games

5 Comparing the performance of object databases and ORM tools
Pieter Van Zyl, Derrick G. Kourie, Andrew Boake
October 2006 **Proceedings of the 2006 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing couuntries SAICSIT '06**
Publisher: ACM Press
Full text available: pdf(146.05 KB) Additional Information: full citation, abstract, references, index terms

The currently popular distributed, n-tiered, object-oriented application architecture provokes many design debates. Designs of such applications are often divided into logical 'tiers' -- usually user interface, business logic and domain object, or data, tiers, each with their own design issues. In particular, the latter contains data that needs to be stored and retrieved from permanent storage. Decisions need to be made as to the most appropriate way of doing this -- the choices are usually whet ...

Keywords: benchmark, db4o, hibernate, object - relation mapping (O-R or ORM), object oriented database management systems (ODBMS), performance, persistence

6 SysObjC: C extension for development of object-oriented operating systems
Ádám Balogh, Zoltán Csörnyei
October 2006 **Proceedings of the 3rd workshop on Programming languages and operating systems: linguistic support for modern operating systems PLOS '06**
Publisher: ACM Press
Full text available: pdf(222.66 KB) Additional Information: full citation, abstract, references, index terms

Object-oriented operating systems prefer to consider every data structure as an object. However, data structures predefined by the hardware's manufacturer do not fit into this scheme. First of all, traditional object-oriented languages do not support objects with user-

defined representation, which would be needed to these data structures as objects. Secondly, classic object-oriented languages have an overhead unacceptable for operating systems. To overcome both problems we introduce predicate cl ...

Keywords: C, low-level programming, predicate classes, predicate dispatching, system programming

7 Short Papers: Object-action association: a HCI design model

Robert Pastel, Nathan Skalsky
January 2004 **Proceedings of the 9th international conference on Intelligent user interfaces IUI '04**
Publisher: ACM Press
Full text available: pdf(160.73 KB) Additional Information: full citation, abstract, references, index terms

While developing the Simple Gesturing User Interface (SGUI) API for incorporating simple gestures into personal digital assistant (PDA) user interfaces, we developed an object-based HCI model and design process. The model assists designing direct manipulation interfaces by proposing that all interface objects are amenable to user manipulation. The model extends object-action interface models by emphasizing the relationship between the interface objects and their actions, object-action associatio ...

Keywords: PDA, PDA interface, gestures, gesturing user-interface, model-based interface design, object-action interface, personal digital assistant, user-interface design

8 Storing a persistent transactional object heap on flash memory

Michal Spivak, Sivan Toledo
June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN/SIGBED conference on Language, compilers and tool support for embedded systems LCTES '06**, Volume 41 Issue 7
Publisher: ACM Press
Full text available: pdf(337.46 KB) Additional Information: full citation, abstract, references, index terms

We present the design and implementation of TinyStore, a persistent, transactional, garbage-collected memory-management system, designed to be called from the Java virtual machine of a Java Card. The system is designed for flash-based implementations of Java Card, a variant of the Java platform for smart cards. In the Java Card platform, objects are persistent by default. The platform supports transactions: a sequence of accesses to objects can be explicitly declared to constit ...

Keywords: nor flash, Java Card, flash, persistent heaps, persistent object stores, smart cards, transactions

9 Free-Me: a static analysis for automatic individual object reclamation

Samuel Z. Guyer, Kathryn S. McKinley, Daniel Frampton
June 2006 **ACM SIGPLAN Notices , Proceedings of the 2006 ACM SIGPLAN conference on Programming language design and implementation PLDI '06**, Volume 41 Issue 6
Publisher: ACM Press
Full text available: pdf(242.16 KB) Additional Information: full citation, abstract, references, citings, index terms

Garbage collection has proven benefits, including fewer memory related errors and reduced programmer effort. Garbage collection, however, trades space for time. It reclaims memory only when it is invoked: invoking it more frequently reclaims memory quickly, but incurs a significant cost; invoking it less frequently fills memory with dead

objects. In contrast, explicit memory management provides prompt low cost reclamation, but at the expense of programmer effort.This work comes closer to the bes ...

Keywords: adaptive, compiler-assisted, copying, generational, liveness, locality, mark-sweep, pointer analysis

10 Design of object-oriented simulations in C++

Jeffrey A. Joines, Stephen D. Roberts
November 1996 **Proceedings of the 28th conference on Winter simulation WSC '96**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(829.79 KB) Additional Information: full citation, abstract, references, citings

An object-oriented simulation (OOS) consisting of a set of object classes written in C++ can be used to create simulation models and packages. The simulations built with these tools possess the benefits of an object-oriented design, including the use of encapsulation, inheritance, polymorphism, run-time binding, and parameterized typing. These concepts are illustrated by creating a set of object frames which encapsulate simulation requirements. Simulation modeling is contained within a set of mo ...

11 Object-oriented military simulation development and application

Ronald D. Painter
December 1995 **Proceedings of the 27th conference on Winter simulation WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(437.20 KB) Additional Information: full citation, abstract, references, index terms

The Department of Defense (DoD) is currently embracing object-oriented programming as a possible solution to problems that beset current simulation tools. The object paradigm, while extremely powerful, has associated costs that must be considered. To realize object-oriented programming benefits such as object reuse (sharing objects between simulations), data hiding (encapsulation), and code reuse and extension (polymorphism), the DoD modeling and simulation community must build objects to a set ...

12 Object oriented modeling with SIMPLE++

Dietmar F. Geuder
December 1995 **Proceedings of the 27th conference on Winter simulation WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(651.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Object orientation has become a major competitive factor in information technology. Reasons for this are the control of complexity, increased quality and possible reuse of modules. The discrete event simulation system SIMPLE++ being presented in this paper brings these advantages to the simulation user. SLMPLE++ is a general purpose system for the object oriented, graphical, and integrated modeling, simulation, and animation of systems and business processes. Models are built with objects from a ...

13 Design of object-oriented simulations in C++

Jeffrey A. Joines, Stephen D. Roberts
December 1995 **Proceedings of the 27th conference on Winter simulation WSC '95**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(792.47 KB) Additional Information: full citation, abstract, references, citings, index terms

A set of object classes have been written in C++ which can be used to create simulation models and simulation packages. The simulations built with these classes possess the

benefits of an object-oriented design, including the use of inheritance, encapsulation, polymorphism, run-time binding, and parameterized typing. These concepts are illustrated by creating a network queuing simulation language which has several notable features not available in other similar languages. Object-oriented simulat ...

14 Recent advances in haptic rendering & applications: Scanning physical interaction behavior of 3D objects

Dinesh K. Pai, Kees van den Doel, Doug L. James, Jochen Lang, John E. Lloyd, Joshua L. Richmond, Som H. Yau

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: pdf(609.44 KB) Additional Information: full citation, abstract, references

We describe a system for constructing computer models of several aspects of physical interaction behavior, by scanning the response of real objects. The behaviors we can successfully scan and model include deformation response, contact textures for interaction with force-feedback, and contact sounds. The system we describe uses a highly automated robotic facility that can scan behavior models of whole objects. We provide a comprehensive view of the modeling process, including selection of model ...

Keywords: behavioral animation, deformations, haptics, multimedia, physically based modeling, robotics, sound visualization

15 Virgil: objects on the head of a pin

Ben L. Titzer

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10

Publisher: ACM Press

Full text available: pdf(487.18 KB) Additional Information: full citation, abstract, references, index terms

Embedded microcontrollers are becoming increasingly prolific, serving as the primary or auxiliary processor in products and research systems from microwaves to sensor networks. Microcontrollers represent perhaps the most severely resource-constrained embedded processors, often with as little as a few bytes of memory and a few kilobytes of code space. Language and compiler technology has so far been unable to bring the benefits of modern object-oriented languages to such processors. In this paper ...

Keywords: data-sensitive optimization, dead code elimination, embedded systems, heap compression, microcontrollers, multi-stage computation, sensor networks, standalone programs, static analysis, systems software, whole-program compilation

16 Statically scoped object adaptation with expanders

Alessandro Warth, Milan Stanojević, Todd Millstein

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**, Volume 41 Issue 10

Publisher: ACM Press

Full text available: pdf(308.35 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the *expander*, a new object-oriented (OO) programming language construct designed to support object adaptation. Expanders allow existing classes to be noninvasively updated with new methods, fields, and superinterfaces. Each client can customize its view of a class by explicitly importing any number of expanders. This view

then applies to all instances of that class, including objects passed to the client from other components. A form of *expander overriding* all ...

Keywords: expanders, modular typechecking, object adaptation

17 Object-oriented simulation of paratrooper-vortex interactions

T. Glenn Bailey, Jose C. Belano, Philip S. Beran, Jack M. Kloeber, Hans J. Petry
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(838.27 KB) Additional Information: full citation, references, index terms

18 Integrating distributed simulation objects

Joseph A. Heim
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(795.47 KB) Additional Information: full citation, references, citings, index terms

19 A framework for developing and managing objects in a complex simulation system

James D. Barrett
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(558.56 KB) Additional Information: full citation, references, index terms

20 An introduction to object-oriented simulation in C++

Jeffrey A. Joines, Stephen D. Roberts
December 1997 **Proceedings of the 29th conference on Winter simulation WSC '97**
Publisher: ACM Press, IEEE Computer Society
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Digital Object Identifier 10.1109/ISIMP.2001.925414
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☐	L6	(object same model$) and edge? and view and face? and (assign$ same region?)	258
☐	L5	L4 and (assign$ same region?)	0
☐	L4	wan.in. and view and edge? and face? and region?	17
☐	L3	(object model? same process???) and (assign??? same region?)	6
☐	L2	wan.in. and (object model? same process???) and (assign??? same region?)	0
☐	L1	wan.in. and (object model$ same process$) and (assign$ same region?)	0

END OF SEARCH HISTORY

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 6687405 B1

L3: Entry 1 of 6 File: USPT Feb 3, 2004

US-PAT-NO: 6687405
DOCUMENT-IDENTIFIER: US 6687405 B1

TITLE: Image segmentation

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trew; Timothy I. P.	Horley			GB
Gallery; Richard D.	Horley			GB

US-CL-CURRENT: 382/232; 382/233, 382/236

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 2. Document ID: US 6173077 B1

L3: Entry 2 of 6 File: USPT Jan 9, 2001

US-PAT-NO: 6173077
DOCUMENT-IDENTIFIER: US 6173077 B1

TITLE: Image segmentation

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Trew; Timothy I. P.	Horley			GB
Gallery; Richard D.	Horley			GB

US-CL-CURRENT: 382/236; 382/232, 382/238

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 3. Document ID: US 5923338 A

L3: Entry 3 of 6 File: USPT Jul 13, 1999

US-PAT-NO: 5923338
DOCUMENT-IDENTIFIER: US 5923338 A

TITLE: Image generation systems having processing element arrays with direct element communication

DATE-ISSUED: July 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rich; Henry H.	Raleigh	NC		

US-CL-CURRENT: 345/505; 345/520, 345/556, 345/561

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 4. Document ID: US 5808690 A

L3: Entry 4 of 6 File: USPT Sep 15, 1998

US-PAT-NO: 5808690
DOCUMENT-IDENTIFIER: US 5808690 A

TITLE: Image generation system, methods and computer program products using distributed processing

DATE-ISSUED: September 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rich; Henry H.	Raleigh	NC		

US-CL-CURRENT: 345/505; 345/520, 345/561

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 5. Document ID: US 4901360 A

L3: Entry 5 of 6 File: USPT Feb 13, 1990

US-PAT-NO: 4901360
DOCUMENT-IDENTIFIER: US 4901360 A

TITLE: Gated architecture for computer vision machine

DATE-ISSUED: February 13, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shu; David B.	Canoga Park	CA		
Nash; James G.	Los Angeles	CA		

US-CL-CURRENT: 382/303; 382/308

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 6. Document ID: US 4809346 A

L3: Entry 6 of 6 File: USPT Feb 28, 1989

US-PAT-NO: 4809346
DOCUMENT-IDENTIFIER: US 4809346 A

TITLE: Computer vision architecture for iconic to symbolic transformation

DATE-ISSUED: February 28, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shu; David B.	Canoga Park	CA		

US-CL-CURRENT: 382/302; 382/205

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
OBJECT	2814438
OBJECTS	1986038
MODEL?	0
MODELA	28
MODELB	11
MODELC	11
MODELD	3
MODELE	79
MODELI	4
MODELK	1
MODELL	669
((OBJECT MODEL? SAME PROCESS???) AND (ASSIGN??? SAME REGION?)).PGPB,USPT.	6

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 17 of 17 returned.

☐ 1. Document ID: US 20070051393 A1

L4: Entry 1 of 17 File: PGPB Mar 8, 2007

PGPUB-DOCUMENT-NUMBER: 20070051393
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20070051393 A1

TITLE: Apparatus for cleaning a wafer

PUBLICATION-DATE: March 8, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cho; Mo-Hyun	Suwon-si		KR
Heo; Dong-Chul	Gunpo-si		KR
Lee; Duk-Lyol	Hwaseong-si		KR
Kim; Tae-Hwan	Hwaseong-si		KR
Kim; Tae-Wan	Incheon		KR

US-CL-CURRENT: 134/149; 134/104.2, 134/137, 134/94.1, 134/99.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20070035926 A1

L4: Entry 2 of 17 File: PGPB Feb 15, 2007

PGPUB-DOCUMENT-NUMBER: 20070035926
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20070035926 A1

TITLE: HEAT SINK ASSEMBLY

PUBLICATION-DATE: February 15, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Xia; Wan-Lin	Shenzhen		CN
Li; Tao	Shenzhen		CN
Xiao; Min-Qi	Shenzhen		CN

US-CL-CURRENT: 361/695

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 3. Document ID: US 20060262238 A1

L4: Entry 3 of 17 File: PGPB Nov 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060262238
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060262238 A1

TITLE: Liquid crystal panel, apparatus for inspecting the same, and method of fabricating liquid crystal display thereof

PUBLICATION-DATE: November 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kweon; Hyug Jin	Korni-shi		KR
Son; Hae Joon	Chilgok-gun		KR
Kim; Wan Soo	Anyang-shi		KR

US-CL-CURRENT: 349/40

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 4. Document ID: US 20060219162 A1

L4: Entry 4 of 17 File: PGPB Oct 5, 2006

PGPUB-DOCUMENT-NUMBER: 20060219162
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060219162 A1

TITLE: Solidification of crystalline silicon from reusable crucible molds

PUBLICATION-DATE: October 5, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Parthasarathy; Santhana Raghavan	Nashua	NH	US
Wan; Yuepeng	Nashua	NH	US
Chartier; Carl	Manchester	NH	US
Talbott; Jonathan A.	Amherst	NH	US
Gupta; Kedar	Hollis	NH	US

US-CL-CURRENT: 117/208

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 5. Document ID: US 20060199357 A1

L4: Entry 5 of 17 File: PGPB Sep 7, 2006

PGPUB-DOCUMENT-NUMBER: 20060199357
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060199357 A1

TITLE: High stress nitride film and method for formation thereof

PUBLICATION-DATE: September 7, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wan; Yuet Mei	Waverley		AU
de Blank; Rene	Heverlee		BE
Maes; Jan Willem	Wilrijk		BE

US-CL-CURRENT: 438/482; 257/E21.247, 257/E21.293, 438/787

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 20060152118 A1

L4: Entry 6 of 17 File: PGPB Jul 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060152118
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060152118 A1

TITLE: Refrigerator

PUBLICATION-DATE: July 13, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lee; Wan-hyeong	Gwangju		KR

US-CL-CURRENT: 312/404

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 20050122463 A1

L4: Entry 7 of 17 File: PGPB Jun 9, 2005

PGPUB-DOCUMENT-NUMBER: 20050122463
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050122463 A1

TITLE: System and method for manufacturing liquid crystal display devices

PUBLICATION-DATE: June 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Byun, Yong Sang	Kumi-shi		KR
Park, Moo Yeo	Taegu-kwangyokshi		KR
Jung, Sung Su	Taegu-kwangyokshi		KR
Kang, Sung Chun	Kumi-shi		KR
Kim, Jong Woo	Kyungsanghui-do		KR
Jeung, Young Hun	Kumi-shi		KR
Lee, Sang Seok	Taegu-kwangyokshi		KR
Park, Sang Ho	Pusan-kwangyokshi		KR
Choo, Hun Jun	Kumi-shi		KR
Kweon, Hyug Jin	Kumi-shi		KR
Chae, Kyung Su	Kumi-shi		KR
Son, Hae Joon	Kyonsangbuk-do		KR
Shin, Sang Sun	Pohang-shi		KR
Lim, Jong Go	Kyonsangbuk-do		KR
Kim, Wan Soo	Arryang-shi		KR
Jeung, Young Hun	Youngcheon-shi		KR
Ryu, Joung Ho	Kumi-shi		KR
Uh, Ji Heum	Seoul		KR
Lee, Im Su	Taegu-kwangyokshi		KR

US-CL-CURRENT: 349/187; 349/190

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 8. Document ID: US 20050037537 A1

L4: Entry 8 of 17 File: PGPB Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050037537
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050037537 A1

TITLE: Method for manufacturing semiconductor devices

PUBLICATION-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kim, Pyoung-Wan	Cheonan-city		KR
Yoon, Tae-Sung	Cheonan-city		KR
Hwang, Hyeon	Cheonan-city		KR

US-CL-CURRENT: 438/106; 257/E21.505, 257/E21.599, 257/E21.705, 257/E25.013

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 9. Document ID: US 20030160907 A1

L4: Entry 9 of 17 File: PGPB Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030160907
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030160907 A1

TITLE: Liquid crystal panel, apparatus for inspecting the same, and method of fabricating liquid crystal display thereof

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kweon, Hyug Jin	Kumi-shi		KR
Son, Hae Joon	Chilgok-gun		KR
Kim, Wan Soo	Anyang-shi		KR

US-CL-CURRENT: 349/40

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 10. Document ID: US 20030052319 A1

L4: Entry 10 of 17 File: PGPB Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030052319
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030052319 A1

TITLE: Fixture for multiple known good die processing

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chen, Hsing-Hsin	Taipei Hsien	CA	TW
Chee, Wan Soo	Davis		US

US-CL-CURRENT: 257/48

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 11. Document ID: US 7092067 B2

L4: Entry 11 of 17 File: USPT Aug 15, 2006

US-PAT-NO: 7092067
DOCUMENT-IDENTIFIER: US 7092067 B2

TITLE: Liquid crystal panel, apparatus for inspecting the same, and method of fabricating liquid crystal display thereof

DATE-ISSUED: August 15, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040227862 A1	November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kweon; Hyug Jin	Korni-shi			KR
Son; Hae Joon	Kyongsangbuk-do			KR
Kim; Wan Soo	Anyang-shi			KR

US-CL-CURRENT: 349/187; 349/73, 349/96

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 12. Document ID: US 6946328 B2

L4: Entry 12 of 17 File: USPT Sep 20, 2005

US-PAT-NO: 6946328
DOCUMENT-IDENTIFIER: US 6946328 B2

TITLE: Method for manufacturing semiconductor devices

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kim; Pyoung-Wan	Cheonan			KR
Yoon; Tae-Sung	Cheonan			KR
Hwang; Hyeon	Cheonan			KR

US-CL-CURRENT: 438/114; 257/E21.505, 257/E21.599, 257/E21.705, 257/E25.013, 438/118, 438/465

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 13. Document ID: US 6774958 B2

L4: Entry 13 of 17 File: USPT Aug 10, 2004

US-PAT-NO: 6774958
DOCUMENT-IDENTIFIER: US 6774958 B2

TITLE: Liquid crystal panel, apparatus for inspecting the same, and method of fabricating liquid crystal display thereof

DATE-ISSUED: August 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kweon; Hyug Jin	Kumi-shi			KR
Son; Hae Joon	Chilgok-gun			KR
Kim; Wan Soo	Anyang-shi			KR

US-CL-CURRENT: 349/40; 349/139, 349/149

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 14. Document ID: US 6339651 B1

L4: Entry 14 of 17 File: USPT Jan 15, 2002

US-PAT-NO: 6339651
DOCUMENT-IDENTIFIER: US 6339651 B1
** See image for Certificate of Correction **

TITLE: Robust identification code recognition system

DATE-ISSUED: January 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tian; Qi	Singapore			SG
Wan; Kong Wah	Singapore			SG
Leman; Karianto	Singapore			SG
Tan; Chade Meng	Singapore			SG
Guo; Chun Biao	Singapore			SG

US-CL-CURRENT: 382/105; 340/10.1, 340/2.1, 340/5.1, 340/7.1, 340/933, 340/937, 382/159, 382/177, 382/209, 382/217, 382/218, 435/362

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 15. Document ID: US 4529283 A

L4: Entry 15 of 17 File: USPT Jul 16, 1985

US-PAT-NO: 4529283
DOCUMENT-IDENTIFIER: US 4529283 A

TITLE: Camera with turret lens and variable frame viewfinder

DATE-ISSUED: July 16, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oshima; Shigeru	Toyko			JP
Wong; Wan C.	North Point			HK

US-CL-CURRENT: 396/74; 396/336, 396/378, 396/503

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 16. Document ID: US 4527617 A

L4: Entry 16 of 17 File: USPT Jul 9, 1985

US-PAT-NO: 4527617
DOCUMENT-IDENTIFIER: US 4527617 A

TITLE: Regenerator checker packing with enhanced transverse flow

DATE-ISSUED: July 9, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gagne; Robert	New Kensington	PA		
Tsai; Yih-Wan	Hara Township, Allegheny County	PA		

US-CL-CURRENT: 165/9.4; 165/9.1, 165/DIG.35

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 17. Document ID: US 4194962 A

L4: Entry 17 of 17 File: USPT Mar 25, 1980

US-PAT-NO: 4194962
DOCUMENT-IDENTIFIER: US 4194962 A

TITLE: Cathode for sputtering

DATE-ISSUED: March 25, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chambers; Douglas L.	Nashville	TN		
Wan; Chong T. Wan	Nashville	TN		

US-CL-CURRENT: 204/298.23; 204/298.16

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20040037460 A1

L11: Entry 1 of 3 File: PGPB Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040037460
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040037460 A1

TITLE: Method for detecting objects in digital images

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Luo, Jiebo	Pittsford	NY	US
Crandall, David J.	Rochester	NY	US

US-CL-CURRENT: 382/165; 382/173

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 7035461 B2

L11: Entry 2 of 3 File: USPT Apr 25, 2006

US-PAT-NO: 7035461
DOCUMENT-IDENTIFIER: US 7035461 B2

TITLE: Method for detecting objects in digital images

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040037460 A1	February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Luo; Jiebo	Pittsford	NY		US
Crandall; David	Rochester	NY		US

US-CL-CURRENT: 382/167; 382/164

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 3. Document ID: US 6940545 B1

L11: Entry 3 of 3 File: USPT Sep 6, 2005

US-PAT-NO: 6940545
DOCUMENT-IDENTIFIER: US 6940545 B1

TITLE: Face detecting camera and method

DATE-ISSUED: September 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ray; Lawrence A.	Rochester	NY		
Nicponski; Henry	Albion	NY		

US-CL-CURRENT: 348/222.1; 348/207.99, 348/231.99, 382/118, 382/289

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
(10 AND 9).PGPB,USPT.	3
(L10 AND L9).PGPB,USPT.	3

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20040252870 A1

L12: Entry 1 of 2 File: PGPB Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040252870
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040252870 A1

TITLE: System and method for three-dimensional image rendering and analysis

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reeves, Anthony P.	Ithaca	NY	US
Kostis, William J.	Warren	NJ	US
Henschke, Claudia	New York	NY	US
Yankelevitz, David	Brooklyn	NY	US

US-CL-CURRENT: 382/128; 382/154

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20040233461 A1

L12: Entry 2 of 2 File: PGPB Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040233461
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040233461 A1

TITLE: Methods and apparatus for measuring orientation and distance

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Armstrong, Brian S.	Shorewood	WI	US
Schmidt, Karl B.	Wauwatosa	WI	US

US-CL-CURRENT: 356/620

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 16 of 16 returned.

☐ 1. Document ID: US 20070052706 A1

L13: Entry 1 of 16 File: PGPB Mar 8, 2007

PGPUB-DOCUMENT-NUMBER: 20070052706
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20070052706 A1

TITLE: System and Method for Performing Domain Decomposition for Multiresolution Surface Analysis

PUBLICATION-DATE: March 8, 2007

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Martin; Ioana M.	Pelham Manor	NY	US

US-CL-CURRENT: 345/423

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20060257048 A1

L13: Entry 2 of 16 File: PGPB Nov 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060257048
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060257048 A1

TITLE: System and method for producing a page using frames of a video stream

PUBLICATION-DATE: November 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lin; Xiaofan	Sunnyvale	CA	US
Zhang; Tong	San Jose	CA	US
Atkins; C. Brian	Mountain View	CA	US
Vondran; Gary L. JR.	San Carlos	CA	US
Chen; Mei	Mountain View	CA	US
Untulis; Charles A.	Sunnyvale	CA	US
Cheatle; Stephen Philip	Bristol	CA	GB

Lee; Dominic Sunnyvale US

US-CL-CURRENT: 382/276

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20060062478 A1

L13: Entry 3 of 16 File: PGPB Mar 23, 2006

PGPUB-DOCUMENT-NUMBER: 20060062478
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060062478 A1

TITLE: Region-sensitive compression of digital video

PUBLICATION-DATE: March 23, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cetin; Ahmet Enis	Ankara		TR
Davey; Mark Kenneth	Bromley		GB
Cuce; Halil I.	Ankara		TR
Castellari; Andrea Elvis	Horley		GB
Mulayim; Adem	Ankara		TR

US-CL-CURRENT: 382/232

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20050131660 A1

L13: Entry 4 of 16 File: PGPB Jun 16, 2005

PGPUB-DOCUMENT-NUMBER: 20050131660
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050131660 A1

TITLE: Method for content driven image compression

PUBLICATION-DATE: June 16, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yadegar, Joseph	Santa Monica	CA	US
Yadegar, Jacob	Santa Monica	CA	US

US-CL-CURRENT: 703/2; 348/384.1, 375/240, 382/232

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 20050116950 A1

L13: Entry 5 of 16 File: PGPB Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050116950
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050116950 A1

TITLE: Regional progressive meshes

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hoppe, Hugues H.	Redmond	WA	US

US-CL-CURRENT: 345/423

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 6. Document ID: US 20050116949 A1

L13: Entry 6 of 16 File: PGPB Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050116949
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050116949 A1

TITLE: Regional progressive meshes

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hoppe, Hugues H.	Redmond	WA	US

US-CL-CURRENT: 345/423

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 7. Document ID: US 20050099420 A1

L13: Entry 7 of 16 File: PGPB May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050099420
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050099420 A1

TITLE: Regional progressive meshes

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hoppe, Hugues H.	Redmond	WA	US

US-CL-CURRENT: 345/420

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 8. Document ID: US 20040108999 A1

L13: Entry 8 of 16 File: PGPB Jun 10, 2004

PGPUB-DOCUMENT-NUMBER: 20040108999
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040108999 A1

TITLE: System and method for performing domain decomposition for multiresolution surface analysis

PUBLICATION-DATE: June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Martin, Ioana M.	Pelham Manor	NY	US

US-CL-CURRENT: 345/423

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 9. Document ID: US 7162102 B2

L13: Entry 9 of 16 File: USPT Jan 9, 2007

US-PAT-NO: 7162102
DOCUMENT-IDENTIFIER: US 7162102 B2

TITLE: Method and system for compositing images to produce a cropped image

DATE-ISSUED: January 9, 2007

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20030113035 A1	June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY

Cahill; Nathan D.	West Henrietta	NY	US
Ray; Lawrence A.	Rochester	NY	US

US-CL-CURRENT: 382/288; 382/284

Full | Title | Citation | Front | Review | Classification | Date | Reference | References | Attachments | Claims | KWIC | Draw De

☐ 10. Document ID: US 7129942 B2

L13: Entry 10 of 16 File: USPT Oct 31, 2006

US-PAT-NO: 7129942
DOCUMENT-IDENTIFIER: US 7129942 B2
**** See image for Certificate of Correction ****

TITLE: System and method for performing domain decomposition for multiresolution surface analysis

DATE-ISSUED: October 31, 2006

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040108999 A1	June 10, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Martin; Ioana M.	Pelham Manor	NY		US

US-CL-CURRENT: 345/423; 345/427, 345/428

Full | Title | Citation | Front | Review | Classification | Date | Reference | References | Attachments | Claims | KWIC | Draw De

☐ 11. Document ID: US 6879324 B1

L13: Entry 11 of 16 File: USPT Apr 12, 2005

US-PAT-NO: 6879324
DOCUMENT-IDENTIFIER: US 6879324 B1

TITLE: Regional progressive meshes

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hoppe; Hugues H.	Seattle	WA		

US-CL-CURRENT: 345/423; 345/419, 345/428

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 12. Document ID: US 6792135 B1

L13: Entry 12 of 16 File: USPT Sep 14, 2004

US-PAT-NO: 6792135
DOCUMENT-IDENTIFIER: US 6792135 B1

TITLE: System and method for face detection through geometric distribution of a non-intensity image property

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toyama; Kentaro	Redmond	WA		

US-CL-CURRENT: 382/118; 382/173, 382/199, 725/10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 13. Document ID: US 6687659 B1

L13: Entry 13 of 16 File: USPT Feb 3, 2004

US-PAT-NO: 6687659
DOCUMENT-IDENTIFIER: US 6687659 B1

TITLE: Method and apparatus for absorbing boundary conditions in numerical finite-difference acoustic applications

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shen; Yunqing	Owasso	OK		

US-CL-CURRENT: 703/2; 367/73, 702/14, 703/10, 711/173

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw De

☐ 14. Document ID: US 6282317 B1

L13: Entry 14 of 16 File: USPT Aug 28, 2001

US-PAT-NO: 6282317
DOCUMENT-IDENTIFIER: US 6282317 B1

TITLE: Method for automatic determination of main subjects in photographic images

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Luo; Jiebo	Pittsford	NY		
Etz; Stephen	Fairport	NY		
Singhal; Amit	Rochester	NY		

US-CL-CURRENT: 382/203

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 15. Document ID: US 6078688 A

L13: Entry 15 of 16 File: USPT Jun 20, 2000

US-PAT-NO: 6078688
DOCUMENT-IDENTIFIER: US 6078688 A

TITLE: Method for image segmentation by minimizing the ratio between the exterior boundary cost and the cost of the enclosed region

DATE-ISSUED: June 20, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cox; Ingemar J.	Lawrenceville	NJ		
Rao; Satish B.	Princeton	NJ		

US-CL-CURRENT: 382/173; 382/199

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWMC | Draw De

☐ 16. Document ID: US 5977979 A

L13: Entry 16 of 16 File: USPT Nov 2, 1999

US-PAT-NO: 5977979
DOCUMENT-IDENTIFIER: US 5977979 A

TITLE: Simulated three-dimensional display using bit-mapped information

DATE-ISSUED: November 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clough; Scott James	Woodinville	WA		
Jones; Jesse Dean	Seattle	WA		
Wood; Tad Martin	Redmond	WA		

US-CL-CURRENT: 345/422; 345/419, 345/660

Full | Title | Citation | Front | Review | Classification | Date | Reference | References | Attachments | Claims | KWIC | Draw De

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Term	Documents
(8 AND 9).PGPB,USPT.	16
(L8 AND L9).PGPB,USPT.	16

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